

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/254,485
Source: 1 FWO
Date Processed by STIC: 10/27/04

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 10/27/2004

PATENT APPLICATION: US/10/754,485

TIME: 12:54:23

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\10272004\J754485.raw

```

3 <110> APPLICANT: HENDERSON, DANIEL R.
5 <120> TITLE OF INVENTION: METHODS OF TREATING LUNG DISEASES
7 <130> FILE REFERENCE: 057220/2302
9 <140> CURRENT APPLICATION NUMBER: 10/754,485
10 <141> CURRENT FILING DATE: 2004-01-09
12 <150> PRIOR APPLICATION NUMBER: 60/439,373
13 <151> PRIOR FILING DATE: 2003-01-09
15 <150> PRIOR APPLICATION NUMBER: 60/480,047
16 <151> PRIOR FILING DATE: 2003-06-20
18 <150> PRIOR APPLICATION NUMBER: 60/494,841
19 <151> PRIOR FILING DATE: 2003-08-12
21 <160> NUMBER OF SEQ ID NOS: 54
23 <170> SOFTWARE: PatentIn Ver. 3.2
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 30
27 <212> TYPE: DNA
28 <213> ORGANISM: Artificial Sequence
30 <220> FEATURE:
31 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
33 <400> SEQUENCE: 1
34 caccatgtac aggatgcaac tgctgtcttg 30
37 <210> SEQ ID NO: 2
38 <211> LENGTH: 51
39 <212> TYPE: DNA
40 <213> ORGANISM: Artificial Sequence
42 <220> FEATURE:
43 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
45 <400> SEQUENCE: 2
46 gatttgccgc taccggaagt cgaccagtt agtggtgaga tgatgctttg a 51
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 794
51 <212> TYPE: DNA
52 <213> ORGANISM: Homo sapiens
54 <400> SEQUENCE: 3
55 tcaactctctt taactactac tcacagtaac ctcaactcct gccacaatgt acaggatgca 60
56 actcctgtct tgcattgcac taagtcttgc acttgtcaca aacagtgcac ctacttcaag 120
57 ttctacaaag aaaacacagc tacaactgga gcatttactg ctggatttac agatgatttt 180
58 gaatggaatt aataattaca agaatcccaa actcaccagg atgctcacat ttaagtttta 240
59 catgcccaag aaggccacag aactgaaaca tcttcagtgt ctagaagaag aactcaaacc 300
60 tctggaggaa gtgctaaatt tagtcaaag caaaaacttt cacttaagac ccagggactt 360
61 aatcagcaat atcaacgtaa tagttctgga actaaaggga tctgaaacaa cattcatgtg 420
62 tgaatatgct gatgagacag caaccattgt agaatttctg aacagatgga ttaccttttg 480
63 tcaaagcatc atctcaacac taacttgata attaagtgtc tcccacttaa aacatatcag 540

```

RAW SEQUENCE LISTING

DATE: 10/27/2004

PATENT APPLICATION: US/10/754,485

TIME: 12:54:23

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\10272004\J754485.raw

```

64 gccttctatt tatttaaata tttaaatttt atattttattg ttgaatgtat ggtttgctac 600
65 ctattgtaac tattattctt aatcttaaaa ctataaatat ggatctttta tgattctttt 660
66 tgtaagccct aggggctcta aaatggtttc acttatttat cccaaaatat ttattattat 720
67 gttgaatggt aaatatagta tctatgtaga ttggtagta aaactattta ataaatttga 780
68 taaatataaa aaaa                                     794
71 <210> SEQ ID NO: 4
72 <211> LENGTH: 462
73 <212> TYPE: DNA
74 <213> ORGANISM: Homo sapiens
76 <400> SEQUENCE: 4
77 atgtacagga tgcaactcct gtcttgcatg gcactaagtc ttgcacttgt cacaaacagt 60
78 gcacctactt caagttctac aaagaaaaca cagctacaac tggagcattt actgctggat 120
79 ttacagatga ttttgaatgg aattaataat tacaagaatc ccaaactcac caggatgctc 180
80 acatttaagt ttacatgcc caagaaggcc acagaactga aacatcttca gtgtctagaa 240
81 gaagaactca aacctctgga ggaagtgtca aatttagctc aaagcaaaaa ctttcaactta 300
82 agacccaggg acttaatcag caatatcaac gtaatagttc tggaactaaa gggatctgaa 360
83 acaacattca tgtgtgaata tgctgatgag acagcaacca ttgtagaatt tctgaacaga 420
84 tggattacct ttgtcaaag catcatctca aactaactt ga 462
87 <210> SEQ ID NO: 5
88 <211> LENGTH: 13
89 <212> TYPE: PRT
90 <213> ORGANISM: Artificial Sequence
92 <220> FEATURE:
93 <223> OTHER INFORMATION: Description of Artificial Sequence: Spacer peptide
95 <400> SEQUENCE: 5
96 Gly Ser Thr Ser Gly Ser Gly Lys Ser Ser Glu Gly Lys
97 1 5 10
100 <210> SEQ ID NO: 6
101 <211> LENGTH: 53
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
108 <400> SEQUENCE: 6
109 gtagcggcaa atcctctgaa ggcaaacagg tgcagctggt gcaatcaggg gga 53
112 <210> SEQ ID NO: 7
113 <211> LENGTH: 24
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
120 <400> SEQUENCE: 7
121 acctaggacg gtgaccttgg tccc 24
124 <210> SEQ ID NO: 8
125 <211> LENGTH: 59
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer

```

RAW SEQUENCE LISTING

DATE: 10/27/2004

PATENT APPLICATION: US/10/754,485

TIME: 12:54:23

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\10272004\J754485.raw

```

132 <400> SEQUENCE: 8
133 gatccctagg tggcggcgga agcggcgagg gctccgcacc tacttcaagt tctacaaag 59
136 <210> SEQ ID NO: 9
137 <211> LENGTH: 38
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
144 <400> SEQUENCE: 9
145 ctcgagttat taagttagtg ttgagatgat gctttgac 38
148 <210> SEQ ID NO: 10
149 <211> LENGTH: 14
150 <212> TYPE: PRT
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic peptide
156 <400> SEQUENCE: 10
157 Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Glu Phe
158 1 5 10
161 <210> SEQ ID NO: 11
162 <211> LENGTH: 31
163 <212> TYPE: DNA
164 <213> ORGANISM: Artificial Sequence
166 <220> FEATURE:
167 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
169 <400> SEQUENCE: 11
170 gatcgatatc atgtacagga tgcaactgct g 31
173 <210> SEQ ID NO: 12
174 <211> LENGTH: 34
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
181 <400> SEQUENCE: 12
182 cgatgctagc agttagtgtt gagatgatgc ttg 34
185 <210> SEQ ID NO: 13
186 <211> LENGTH: 43
187 <212> TYPE: DNA
188 <213> ORGANISM: Artificial Sequence
190 <220> FEATURE:
191 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
193 <400> SEQUENCE: 13
194 atggcggtga cctttgcgtt actggtggcc ctccgtggtgc tca 43
197 <210> SEQ ID NO: 14
198 <211> LENGTH: 39
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial Sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer

```

RAW SEQUENCE LISTING

DATE: 10/27/2004

PATENT APPLICATION: US/10/754,485

TIME: 12:54:23

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\10272004\J754485.raw

```

205 <400> SEQUENCE: 14
206 ccagttttca ttccttactt cttaaacttt cttgcaagt 39
209 <210> SEQ ID NO: 15
210 <211> LENGTH: 567
211 <212> TYPE: DNA
212 <213> ORGANISM: Homo sapiens
214 <400> SEQUENCE: 15
215 atggcggtga cctttgcggt actgggtggcc ctcttggtgc tcagctgcaa gtcaagctgc 60
216 tctgtgggct gtgatctgcc tcaaaccac agcctgggta gcaggaggac cttgatgctc 120
217 ctggcacaga tgaggagaat ctctcttttc tctgcttga aggacagaca tgactttgga 180
218 tttccccagg aggagtttgg caaccagttc caaaaggctg aaaccatccc tgcctccat 240
219 gagatgatcc agcagatctt caatctcttc agcacaagg actcatctgc tgcttgggat 300
220 gagaccctcc tagacaaatt ctacactgaa ctctaccagc agctgaatga cctggaagcc 360
221 tgtgtgatac aggggggtggg ggtgacagag actccctga tgaaggagga ctccattctg 420
222 gctgtgagga aatacttcca aagaatcact ctctatctga aagagaagaa atacagccct 480
223 tgtgctggg aggttgtcag agcagaaatc atgagatctt tttctttgtc aacaaaacttg 540
224 caagaaagtt taagaagtaa ggaataa 567
227 <210> SEQ ID NO: 16
228 <211> LENGTH: 53
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
235 <400> SEQUENCE: 16
236 accgtcctag gtggtggcgg agggatcatgt gatctgcctc aaaccacag cct 53
239 <210> SEQ ID NO: 17
240 <211> LENGTH: 55
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
247 <400> SEQUENCE: 17
248 tctcagaggt cgacgctagc ttattattcc ttacttctta aactttcttg caagt 55
251 <210> SEQ ID NO: 18
252 <211> LENGTH: 1269
253 <212> TYPE: DNA
254 <213> ORGANISM: Artificial Sequence
256 <220> FEATURE:
257 <223> OTHER INFORMATION: Description of Artificial Sequence: sFv-alpha-IFN
258 chimera nucleotide sequence
260 <400> SEQUENCE: 18
261 atgaaatacc tattgcctac ggcagccgct ggattgttat tactcgcggc ccagccggcc 60
262 atggcccagg tacagctgca gcaatcaggg ggaggcgtgg tccagcctgg gaggtccctg 120
263 agactctcct gtgcagcctc tggattcacc ttcagtagct atgctatgca ctgggtccgc 180
264 caggctccag ggaaggggct ggagtgggtc tcagctatta gtggtagtgg tggtagcaca 240
265 tactacgcag actccgtgaa gggccgggtc accatctcca gagacaacgc caagaactca 300
266 ctgtatctgc aatgaacag cctgagagcc gaggacacgg ctgtgtatta ctgtgcgaga 360
267 gatacccgag ggtacttcca tctctggggc cgtggcacc tggtcaccgt ctctcaggt 420
268 ggcggagggt catctgagct gactcaggac cctgctatgt ctgtggcctt gggacagaca 480

```

RAW SEQUENCE LISTING

DATE: 10/27/2004

PATENT APPLICATION: US/10/754,485

TIME: 12:54:23

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\10272004\J754485.raw

```

269 gtcagaatca catgtcaagg ggacagtctc agaaagtatc atgcaagctg gtatcagcag 540
270 aagccagggc agggccctgt tcttgtcctc tatggtaaga atgaacgtcc ctcagggatc 600
271 ccagagcgat tctctgggtc caccctcagga gacacagctt ccttgaccat cagtgggctc 660
272 caggcggaag atgaggctga ctattactgt cactcccag actctaagtc tgatcttctg 720
273 gtgttcggcg gagggaccaa ggtcaccgtc ctagggtggtg gcggagggtc atgtgatctg 780
274 cctcaaacc acagcctggg tagcaggagg accttgatgc tcctggcaca gatgaggaga 840
275 atctctcttt tctcctgctt gaaggacaga catgactttg gatttcccca ggaggagttt 900
276 ggcaaccagt tccaaaaggc tgaaaccatc cctgtcctcc atgagatgat ccagcagatc 960
277 ttcaatctct tcagcacaaa ggactcatct gctgcttggg atgagaccct cctagacaaa 1020
278 ttctacactg aactctacca gcagctgaat gacctggaag cctgtgtgat acaggggggtg 1080
279 ggggtgacag agactccctt gatgaaggag gactccattc tggctgtgag gaaatacttc 1140
280 caaagaatca ctctctatct gaaagagaag aaatacagcc cttgtgcctg ggaggttgtc 1200
281 agagcagaaa tcatgagatc tttttctttg tcaacaaact tgcaagaaag tttaagaagt 1260
282 aaggaataa 1269
285 <210> SEQ ID NO: 19
286 <211> LENGTH: 41
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
293 <400> SEQUENCE: 19
294 cctcgagata tcgccacat gaccaacaag tgtctcctcc a 41
297 <210> SEQ ID NO: 20
298 <211> LENGTH: 37
299 <212> TYPE: DNA
300 <213> ORGANISM: Artificial Sequence
302 <220> FEATURE:
303 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer
305 <400> SEQUENCE: 20
306 ctctagatct tcagctagcg tttcggagggt aacctgt 37
309 <210> SEQ ID NO: 21
310 <211> LENGTH: 564
311 <212> TYPE: DNA
312 <213> ORGANISM: Homo sapiens
314 <400> SEQUENCE: 21
315 atgaccaaca agtgtctcct ccaaattgct ctctgttgt gtttctccac tacagctctt 60
316 tccatgagct acaacttgct tggattccta caaagaagca gcaattttca gtgtcagaag 120
317 ctctgtggc aattgaatgg gaggcttgaa tactgcctca aggacaggat gaactttgac 180
318 atccctgagg agattaagca gctgcagcag ttccagaagg aggacgccgc attgaccatc 240
319 tatgagatgc tccagaacat ctttgtctatt ttcagacaag attcatctag cactggctgg 300
320 aatgagacta ttgttgagaa cctcctggct aatgtctatc atcagataaa ccatctgaag 360
321 acagtcttgg aagaaaaact ggagaaagaa gatttcacca ggggaaaact catgagcagt 420
322 ctgcacctga aaagatatta tgggaggatt ctgcattacc tgaaggccaa ggagtacagt 480
323 cactgtgcct ggaccatagt cagagtggaa atcctaagga acttttactt cattaacaga 540
324 cttacagggtt acctccgaaa ctga 564
327 <210> SEQ ID NO: 22
328 <211> LENGTH: 54
329 <212> TYPE: DNA
330 <213> ORGANISM: Artificial Sequence

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/754,485

DATE: 10/27/2004

TIME: 12:54:24

Input Set : A:\sequence listing.txt

Output Set: N:\CRF4\10272004\J754485.raw